Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See No.	otification of Transmittal of International					
10972P-WO	remininary Examination Report (Form PC1/IPEA						
International application No. PCT/EP2003/006481	International filing date (day/month/year 18 June 2003 (18.06.2003)	r) Priority date (day/month/year) 19 June 2002 (19.06.2002)					
International Patent Classification (IPC) or n G01R 31/28	<u> </u>	19 Julie 2002 (19.00.2002)					
Applicant AKT E	LECTRON BEAM TECHNOLOG	БУ GMBН					
and is transmitted to the applicant ac	ccording to Article 36.	ternational Preliminary Examining Authority					
2. This REPORT consists of a total of 8 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a to	otal of sheets.						
3. This report contains indications rela	ting to the following items:						
I Basis of the report							
II Priority							
III Non-establishment	of opinion with regard to novelty, inventive	re step and industrial applicability					
IV Lack of unity of inv		,					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents	Control de constant de la constant d						
VII Certain defects in the	ne international application						
VIII Certain observations on the international application							
							
Date of submission of the demand	Date of completi	on of this report					
13 January 2004 (13.01	2004) 13	December 2004 (13.12.2004)					
Name and mailing address of the IPEA/EP	Authorized offic	Authorized officer					
Facsimile No.	Telephone No.						

Form PCT/IPEA/409 (cover sheet) (July 1998)

International application No.

PCT/EP2003/006481

I.	I. Basis of the report							
1.	1. With regard to the elements of the international application:*							
			mational application as originally filed					
	\boxtimes	the desc	ription:					
		pages	1 2 4-17					
		pages	, as originally filed					
		pages	, filed with the letter of 12 November 2004 (12.11.2004)					
	\boxtimes	the clain						
	لاعا	pages						
		pages	, as originally filed , as amended (together with any statement under Article 19					
		pages						
		pages	, filed with the demand 1-28, filed with the letter of12 November 2004 (12.11.2004)					
	abla	-						
		the draw						
		pages _	, as originally filed					
		pages _ pages	, filed with the demand					
		-	, filed with the letter of					
	L] tl	he sequer	nce listing part of the description:					
		pages _	, as originally filed					
		pages _	, filed with the demand					
		pages _	, filed with the letter of					
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in we the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 at or 55.3).							
3.	With	regard minary ex	to any nucleotide and/or amino acid sequence disclosed in the international application, the international camination was carried out on the basis of the sequence listing:					
			ed in the international application in written form.					
		filed to	gether with the international application in computer readable form.					
			ed subsequently to this Authority in written form.					
	Щ		ed subsequently to this Authority in computer readable form.					
		The sta	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.					
		The star been fur	atement that the information recorded in computer readable form is identical to the written sequence listing has imished.					
4.		The am	nendments have resulted in the cancellation of:					
			the description, pages					
			the claims, Nos.					
			the drawings, sheets/fig					
5.		This repo	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
	and 7	acement si is report 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16					
**	** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							
<u></u>								

International application No.

PCT/EP2003/006481

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability									
 The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of: 									
	the entire international application.								
	claims Nos28								
becaus	because:								
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):								
	e e e e e e e e e e e e e e e e e e e								
⊠ s	the description, claims or drawings (indicate particular elements below) or said claims Nos								
	the claims, or said claims Nos are so inadequately supported								
	by the description that no meaningful opinion could be formed.								
	no international search report has been established for said claims Nos								
2. A mea seque	amingful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid ince listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.								

International application No. PCT/EP 03/06481

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The application does not meet the requirements of PCT Article 6 because claim 28 is unclear.

The expressions used in claim 28 ("... that was tested using a testing method according to ... or with a device according to") are not only vague and unclear but attempt to define the claimed apparatus by features which are based only on a test method. Thus the wording of claim 28 leaves the reader uncertain as to the meaning of the technical features in question. Consequently the subject matter of this claim is not clearly defined (PCT Article 6).

International application No. PCT/EP 03/06481

v. 	Reasoned statement under Article 3 citations and explanations supporting	5(2) with regard to novelty, ag such statement	inventive step or industrial app	licability; ·
1.	Statement			
	Novelty (N)	Claims	1-27	YES
		Claims		NO
	Inventive step (IS)	Claims	1-27	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-27	YES
		Claims		NO

- 2. Citations and explanations
 - 1. Reference is made to the following documents:
 - **D1:** EP-A-0 806 700 (SEIKO EPSON CORP) 12 November 1997 (1997-11-12)
 - **D2:** US-B1-6 337 722 (HA YONG-MIN) 8 January 2002 (2002-01-08)
 - **D3:** US-A-5 774 100 (AOKI YOSHIRO ET AL) 30 June 1998 (1998-06-30)
 - **D4:** US-B1-6 380 729 (SMITH JOHN STEPHEN) 30 April 2002 (2002-04-30)
 - D5: WO 98 31050 A (HOLMBERG SCOTT H; IMAGE QUEST TECHNOLOGIES INC (US)) 16 July 1998 (1998-07-16)
 - **D6:** US-B1-6 340 963 (ANNO KOUICHI ET AL) 22 January 2002 (2002-01-22)
 - 2. **D1**, which is considered the closest prior art, discloses (cf., for example, page 2, lines 4 to 42, together with figure 19, and page 3, lines 32 to 46, together with figure 1)

control electronics for an optoelectronic apparatus which comprises a matrix of pixels, with a driver circuit and with at least two arrangements of

contact surfaces which are connected to the inputs of the driver circuit.

3. The subject matter of independent claims 1, 13 and 27 therefore differs from the above disclosure in that the contact surfaces of the second arrangement are larger than those of the first arrangement.

Therefore the subject matter of these claims is novel (PCT Article 33(2)).

4. The problem addressed by the present invention can thus be considered that of overcoming the prior art problems concerning the test methods. When the apparatus as per D1 is being tested, a plurality of contact surfaces have to be contacted, such that the display element has to be shifted during the test.

For the following reasons, the solution to this problem proposed in independent claims 1, 13 and 27 involves an inventive step (PCT Article 33(3)):

None of the available documents, **D1** to **D6**, discloses two arrangements of contact surfaces which are connected to the *input* of the driver circuit and are of different sizes. Only **D1** (see figure 1) could be interpreted to mean that two arrangements of contact surfaces 34 and 35 are connected to the circuit input, but in no way are they of different sizes (see figure 19 also). The other documents disclose merely test arrangements connected to the driver circuit *output*.

Therefore a person skilled in the art, faced with the teachings of the available documents, would not arrive at the subject matter of claims 1, 13 and 27 in an obvious manner.

Consequently these claims meet the inventive step requirements of PCT Article 33(3).

- 5. Claims 2 to 12 and 14 to 26 are dependent on claims 1 and 13, respectively, and hence likewise meet the PCT novelty and inventive step requirements.
- 6. Although claims 1 and 13 were drafted as separate, independent claims, they actually appear to refer to the same subject matter and evidently differ only in terms of differing definitions of the subject matter for which protection is sought or by the terminology used for the features of this subject matter. Therefore the claims are not concise. Moreover, the claims as a whole lack clarity, since, owing to the number of independent claims, it is difficult, if not impossible, to determine the subject matter for which protection is sought, rendering it unreasonably difficult for third parties to establish the scope of protection.

Therefore claims 1 and 13 do not meet the requirements of PCT Article 6.

7. The independent claims have not been drafted in the two-part form (PCT Rule 6.3(b)). However, in the present case, the two-part form would appear to be appropriate. Therefore the features known together from the prior art should be combined in the preamble (PCT Rule 6.3(b)(i)) with the other

International application No. PCT/EP 03/06481

features appearing in the characterizing part (PCT Rule 6.3(b)(ii)).

8. Contrary to the requirement of PCT Rule 5.1(a)(ii), the description did not cite **D1** to **D6** or the relevant prior art contained therein.